



OSCILLATOR

Volume 25 Number 9

5 MHz Experiment Initiated in Great Britain, Everett W6ABM

The Radio Society of Great Britain has announced that the Ministry of Defense the Radiocommunications Agency for Great Britain have allocated five spot frequencies in the range of 5250 to 5450 KHz for an experiment that includes propagation and antenna studies aimed at improving the understanding of Near Zenithal Radiation or NVIS (Near Vertical-Incidence Skywave) - communications via the ionosphere.

The frequencies assigned are 5260, 5280, 5290, 5400 and 5405 KHz. These will be made available in the form of 3-kHz bandwidth channels. The permission comes in the form of a Notice of Variation to amateur radio licenses. NOV's will be issued to Full Class A licensees. It is hoped to relax this ruling as the experiment progresses. NOV's were issued beginning August 1st. It is anticipated that the experiment will run for up to four years. See Related Story, Page 6

Next Meeting — Wednesday, September 11th at 7 PM

Each September we open our meeting to the "OTVARC Tailgate Flea Market." What do you have to pass along to someone who will use it! Maybe you're a buyer. There is fun for everyone. We'll hear a recommendation on our Club Dues.

Join us at 6:00 pm and enjoy the no-host Elks' Buffet line.



From the Bridge H. D. Landers, WAØBRU

How quickly time flies. Janet Bell and John Anderson are scouting for people to run for office for 2003. We'll be adding one more member to the Elections Committee before the close of August.

One more "From the Bridge" is coming from Lombard Plaza. The next one will be from the Fairfield house.

Wouldn't you know it? We are moving just after I renewed my license at the old address!

It was June of '96 when we moved from Iowa to Oregon. We arrived just in time for the Rose Parade but missed SEAPAC. We lived in Tigard and joined OTVARC, but I went to night shift and could not make monthly meetings.

See "Bridge" Page 3

September 2002

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Beaverton rewrites code for Wireless Tower Facilities, Dick Ballard W7AND

The City of Beaverton is redoing its development code to add new regulations covering Wireless Communications Facilities (WCF). The main targets are cell phone towers, antenna panels and arrays, and satellite dishes. We hams really perk up our ears when this kind of action is proposed. So when I got the city notice in the mail, I went to the Beaverton web site and downloaded the 93 page document describing the proposed amendments to the development code.

Not to panic - yet. Among the exemptions listed on page 76 in section 60.70.20, I found:

C. Amateur and citizen band transmitters and antennas, provided that any antennas exceeding the maximum height limit of the underlying zoning district shall be subject to land use and building permit approvals.

But this exemption apparently applies only to the Special Regulations section of the code. The referenced section on land use sets the maximum antenna height at 60 feet for all residential zoning districts. In addition, it is not clear to me whether the definition of a WCF as an unattended facility could include a ham repeater site and thus trigger a conditional use situation under the code in that same land use section.

Of interest is PRB-1, the 1985 Memorandum Opinion and Order from the FCC in response to a request from the ARRL. This document attempts to define the limitations of local and state regulatory authority over federally licensed radio facilities. I obtained a copy of that document from the ARRL web site so I could get a better idea of how we would counter any attempt by the city to control our ham antenna installations. It is a fascinating, if a bit ambiguous, document which has aided our cause in some localities.

My impression right now is that hams will be little affected by the proposed changes, except for antennas over 60 feet. But we need to follow the process to make sure that the existing exemption remains and that other uncertainties are clarified. A public hearing is scheduled for September 11, 2002 at Beaverton City Hall, 4755 SW Griffith Drive, starting at 7:00 pm.

[NOTE: The Hearing is set for the same time as the OTVARC Club Meeting. We'll want to have someone there to represent us.]

WINTER QRP BUILDING PROJECT, Carl N7CVB (with Mike KI7IXI)

I'm preparing my next QRP Quarterly column about club winter projects and activities. Included will be club construction projects of rigs and antennas.

How do ya'll feel about a group project this winter? There has been some interest in a weekly QRP Net and this could go hand-in-hand.

Dave Benson's Rock Mite (<http://smallwonderlabs.com/Rockmite.htm>) is a \$25 ppd 7.040 transceiver with a keyer, no alignment, and fits into an Altoid case. It's promoted as an evening project, which I immediately translated into an afternoon club project. A Saturday at a location where we could burn solder and test the units would be ideal. The result, besides the fun of building a 'lil rig, would be a transceiver to use for 40 meter ground wave net sessions in the local area. We'll do a group buy!

Interested? Drop a note to n7cvb@arrl.net or call 503.620.2581

BRIDGE, from page 1

A couple of years later we moved to Lombard Plaza in Beaverton. A year-and-a-half ago, Julie got caught in a sneaker wave and we lived with Betty for a month until we could move from a 3rd floor to a 1st floor apartment to accommodate her injuries. Now, we have a great deal on a house and will move to Fairfield Street. Julie hopes we will get boxes lining our bed room wall unpacked finally. I hope to get some HF antennas up without a hassle from a neighborhood association that results in our invoking PRB1.

While I am writing this, I am "on call" for work. We have a major move of a paging terminal across town. The pager is going off all night with alarms for this or that. Hopefully, I won't have another one like the day of our last OTVARC meeting. Hope the program was good, but I had been up all day Tuesday and was dispatched at 9:30 PM to Astoria. I was on a hilltop until late that morning. Still, the pager and phone would just let me doze before going off again. Anyway, a quick peak at the calendar says I don't do it again till September. ~~ZZZZZZZZZZZZZZZZZZZZ~~ OOPS asleep at the keyboard.

With all of this I am not going to yell at any one to participate in events or ARES this month. If you are an ARES member, don't forget you need meetings and net activity to keep up your membership. I will let you be your own reminder of what needs to be done.

Above all enjoy your hobby and life to their fullest.

73

Harold WAØBRU

Special Achievement Honors Garriott and England, Dayton

Dr. Owen Garriott, W5LFL, of Huntsville, AL and Dr. Tony England, W0ORE, of Dexter, MI have been chosen to share Dayton Hamvention's Special Achievement award for 2002. These two gentlemen pioneered ham radio operations in space by spearheading a successful campaign to incorporate an amateur radio station aboard NASA's space shuttles.

Drs. Garriott and England lent their knowledge, experience and influence to build and then operate equipment that allowed hams everywhere to share the excitement of space flight. Their pioneering advancements lead to the development of SAREX.

Dayton Hamvention congratulates Dr. Owen Garriott, W5LFL, and Dr. Tony England, W0ORE for their Special Achievement.

ANOTHER WAY TO LEARN CW, Tom N6AJR

Ray G4FON, has made a couple of improvements to his already great program for the easy way to learn the code. His original download (free) would unzip in your temporary file , and this caused a bit of a search to find it. He has changed the program for it to download into its own temp file (KOCH) and that makes it even easier to install. Ray is also making an addition to the program where you will be able to type the code you hear on the computer instead of writing it down manually.

He has done both of these changes to accommodate suggestions from his current users. This program starts by sending you 2 characters at 20 wpm, and when you can copy these at 90% correct, you add the next letter. It's called the Koch Method, and there is more info on his site, <http://www.g4fon.co.uk/>
Thanks again Ray, and its still free!!

ELECTIONS ANYONE?, Janet WB7FJC

I'd like to invite anyone who is interested in working with us on the Elections Committee to contact either John Anderson or me. If you would be interested in considering a run for office in the club, let us know. We love volunteers.

There are a fair number of new members in the club. Anyone who has been a member for at least a year is welcome to run for office. That is not a Bylaw requirement, but makes sense to me. That person will know something about the club's activities and needs. All of you newer members, jump right in — there's lots of talent out there. The "old-timers" would be glad to help you in your new adventure as a club officer! This year's Board has several new officers who are providing strong leadership for the club.

One way to really understand the value of Oregon Tualatin Valley Amateur Radio Club is to serve as one of her leaders. You can reach us at: Janet, WB7FJHC, wb7fjc@arrl.net or at 503.648.4147; John, KA7BRZ, ka7brz@arrl.net.

Our Election Process, Everett W6ABM

The charge to our Elections Committee is to present at least ONE qualified member for each position. The Elections Committee is composed of a current officer and two members who are not serving currently on the Board. The Elections Committee is appointed by the Board at its July meeting and announced to the Club at the August Members Meeting. The Elections Committee is working now to present four members (or more) to run for Officers and two Trustees.

Nominations from the floor are received at the November meeting. Election ballots are mailed (usually by the Secretary at the request of the Elections Committee) immediately after the November meeting and must be returned by the beginning of the December meeting. The Elections Committee announces the result at that meeting. Newly elected persons start in January. The President is the judge if there should be any election issue to resolve.



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THE "Pledge Of Allegiance", Linda KC7YTD

When we open our meetings with a recitation of the Pledge of Allegiance to the U.S. Flag, we are doing something we learned while children in school. Its especially important that we mean what we are saying this month at our meeting, on the first anniversary of the terror attack on America.

As a girl in school, we were taught to say those new words added to the pledge as a single phrase. There is no comma after ONE NATION. We are "ONE NATION UNDER GOD." I find meaning in that phrase correctly spoken.

Join me in saying, ONE NATION UNDER GOD, this month.

OSCILLATOR

LUNCH BUNCH

Join the LUNCH BUNCH on Saturday, September 28th at 1:30 pm at Lupe's Escape — 19405 SW Tualatin Valley Hwy in Aloha. As usual, our Talk in is on 146.90 MHz.

Don't forget to sign the "reminder" call sheet at the club meeting. Julie KD7GQW (503-646-1546 or kd7gqw@aol.com) would be glad to answer your questions.

Hope to see YOU there.

TRAVELERS'

Waterloo County Park. Is the destination for the Travelers' this September. Al W7SIC and Mary N7TRW Berg are Wagonmasters. The dates are September 20, 21, & 22. Contact them at W7sic@pocketmail.com or by phone at 503-816-7098.

Directions for Waterloo County Park:: From Portland take 1-5 to the Lebanon exit (228) for Hwy 20. Turn left and follow Hwy 20 about 13 miles to Lebanon. Continue on Hwy 20 for less than 5 miles. Watch for signs to Waterloo County Park. Turn left and follow signs to Waterloo. Watch for signs to the park on the right.

For general information about the travelers Contact Betty Mickley N7REX At 503-642-1284 Or n7rex@teleport.com

"Blue" Drawing

The next "Blue" Drawing will begin take place at the Christmas meeting in December. "Blue" tickets in lots of four are \$1 from Julie KD7GQW.

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Everett Curry W6ABM

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W6abm@arri.net

This space provided as a service to OTVARC members. Your ad can run in *The Oscillator*. Contact the editor at W6ABM@arri.net or 503-681-2345.

EXAM News

On August 3rd our VE Session served ten applicants. We issued six new Technician licenses. Two hams upgraded to General Class and one to Extra Class.

Thanks to Ves: Ron N7HKK, and Rich KD7GIE.

Our TEST DATE for Amateur Radio Exams will be Saturday, October 5th at Ronler Acres Fire Station, 1:00 pm. Reimbursement amount for 2002 is \$10.00 per exam session. December 7th is the remaining date for 2002.

Contact Carl, WS7L, 503-629-5796 or ws7l@arri.net, to register. For other opportunities, send an email request to W7OTV@yahoo.com.

Repeater In Puerto Rico

The recently coordinated WP3BM 6 meter repeater, located at Bayam'on, Puerto Rico, FK68, is on the air.

The repeater is open for every ham to use. The split is 0.5 MHz. Fout: 51.620 MHz PL 131.8 Fin : 51.120 MHz PL 136.5

The repeater is working without CTSS, but in noisy days, 136.5 Hz tone might be activated. The repater is also linked to a local UHF repeater, KP4KSL, so the local community can enjoy the band openings when they happen.

See you on six, 73!

Tuning Dial, From Page 7

and only digital read outs of less than about 15 years of age can really be relied upon. Earlier equipment may have a digital read out which is less accurate than the display suggests!

Until you have checked out your transceiver, as described above, it will be prudent to set your dial read-out for the different modes as follows:

CHANNEL	USB	LSB	RTTY	DATA<600Bauds	DATA>600 Bauds
5260 kHz FA	5258.5	5261.5	5260.5	5259-5261	5259
5280 kHz FB	5278.5	5281.5	5280.5	5279-5281	5279
5290 kHz FC	5288.5	5291.5	5290.5	5289-5291	5289
5400 kHz FE	5398.5	5401.5	5400.5	5399-5401	5399
5405 kHz FM	5403.5	5406.5	5405.5	5404-5406	5404

When employing RTTY FSK F1B the shift should be set to narrow 170 Hz and the quiescent or idle carrier should rest at the higher radio frequency on MARK and shift downwards to the lower radio frequency on SPACE. The SPACE condition occurs when the "key" is closed. Before carrying out any frequency checks as described above for the RTTY FSK F1B mode, you must ensure that any internal "dip" switches are set to give the RF carrier shift described when moving from MARK to SPACE.

When using DATA MT63 mode the interleave should be set to 1000 Hz (the default standard MT63-1K), and the transmitter should be set to USB on ALL bands. Remember also that a Morse code identification is transmitted on the low frequency edge of the signal.

Modes that employ analogue audio tone modulation of the carrier wave should not really be used in the 5 MHz channels as they use up unnecessary bandwidth, and in any case Tone modulation of greater than 1500Hz cannot be accommodated.

Finally, when just monitoring the 5 MHz frequencies, remember to remove computer data connections from the microphone socket or data interface of the transceiver, as well as the microphone itself, because the slightest "beep" made by your computer could send out a signal AROUND THE WORLD on an unauthorised frequency.

[If you are intrigued by the possibility of 5 MHz work for amateur radio, why not listen and prepare a story for The Oscillator?]

WHERE TO SET THE TUNING DIAL, RSGB Website

The majority of radio amateurs are probably not used to the idea of channelisation, when considering modes other than AM and FM. The Ministry of Defence (MoD), which is the UK's Primary User in the 5250 to 5450 kHz range, where THE FIVE MEGS EXPERIMENT channels are placed, has adopted 3 kHz bandwidth channels, but they are assigned in 5 kHz steps. This means that there is a 2 kHz guard band, or spacing between the upper frequency edge of one channel and the lower edge of the next one.

The Radiocommunications Agency (RA) has stated that all the emissions and modes permitted in the Amateur Radio Licence (A) for the HF frequency range are permissible (except pulse emissions), provided that they can be accommodated totally within the 3 kHz channels assigned under the 5 MHz Notice of Variation (NoV). Thus Double Sideband Voice AM is not practicable. The 5 MHz NoV specification is therefore quite precise - if you can fit it into a 3 kHz channel - then you can use the mode in question, otherwise you must employ a narrower bandwidth mode.

Virtually all modern amateur transceivers with digital readout now display the nominal carrier frequency for the mode in use - even if one of the sidebands is vestigial or totally suppressed (e.g. Voice H3E), or if one sideband and the carrier is suppressed (e.g. Voice J3E). In the case of an on-off keyed carrier wave (ICW) used for sending Morse code (A1A), the recipient's receiver should zero beat to the same dial read-out as the transmitting operator's transceiver shows. This assumes, of course, that both operators have switched off their Clarifiers, Receiver Incremental Tuning (RIT), Delta Tune or Beat Frequency Oscillator (BFO) controls - or set them to centre zero. However, most Morse operators like to hear a signal with a pitch of between 800 and 900 Hz, which frequency lies at the peak of human hearing. Certain models of transceiver therefore apply a carrier offset by 800 to 900 Hz from the dial read-out. A similar offset may also apply to RTTY or certain DATA modes, where an offset of 1 kHz or more may occur between the transmitted carrier frequency and the dial read-out. These variations are not usually mentioned in the equipment handbook.

The simplest way to check out your own equipment is to get together with another radio amateur, or to visit your local radio club, where another digital read-out transceiver is available. One transceiver/receiver of known accuracy can then be used to check the frequency of the transmitted carrier from the second one when switched to different modes. Obviously the transceiver under test must be operated into a dummy load, and no modulation should be applied whilst making the checks.

Both transceivers can be checked against the standard frequency and time station call sign RWM from Moscow, which can be heard after dark on 4996 kHz. These time signals from RWM can also be heard during daylight hours on 9996 kHz and 14996 kHz. The station transmits alternating sequences of one-tenth of a second time pulses, single second pulses and five minutes of unmodulated carrier - during each 15-minute period. Incidentally, because the one-tenth of a second pulses are not shaped - they cause a considerable amount of "splatter" to either side of 4996 kHz. If you are lucky enough to have access to accurate frequency measuring equipment, then the procedure of checking against station RWM will not be necessary. If you have a calibrate facility on your transceiver, its accuracy may need checking against RWM, or another known standard. A pre-set adjustment for the calibration oscillator is provided on most transceivers. Early valve transmitters and transceivers are unlikely to have sufficient long term stability to remain within a given 3 kHz channel, and only

See "Tuning Dial" Page 6

Public Service: Does It Make A Difference?, Martin KC7ILK

I want to take this time to express a deep thank you to the Oregon Tualatin Valley Amateur Radio Club and to J.D. Fort, for your generosity, cooperation, and support to Columbia County ARES and "Hood to Coast" amateur radio volunteers. Allowing us to use the 146.96 repeater for the purpose of providing emergency support communications for this event is in the best spirit of ham radio. Your help, allowed us to place 8 major medical and injury calls to Clackamas County 911. One of these involved CPR. That victim did survive the incident..

Please extend our sincere thanks to the OTVARC — trustees, officers, and membership. We hope to be able to do this again next year.

Thanks again and 73s,
Martin T. Anderson KC7ILK
Emergency Coordinator and Radio Officer
Columbia County ARES/RACES

From: Steve Johnson

I too wish to extend my thanks to you and the Club. The individual that required CPR was saved because communications were in place that allowed an immediate call by one of our field units, N7TSZ, to activate EMS. The party involved received immediate CPR, and when EMS arrived was defibrillated three time before converting to a normal heart rhythm. I will work with Martin, KC7ILK, and OTVARC to find ways to improve the level of communication between our groups., and lessen the impact of the event on regular users of the machine.

Once again, our thanks.

Third USA National Foxhunting Championships Cincinnati, Ohio

— Joe Moell KØOV USA ARDF Coordinator

Announcing the Third USA National Foxhunting Championships Cincinnati, Ohio, July 30 - August 3, 2003 The OH-KY-IN Amateur Radio Society has been selected to host the third USA national championships of on-foot hidden transmitter hunting (ARDF). Events will take place from July 30 to August 2, 2003 near Cincinnati, Ohio. Event venues are being mapped, the official jury is being selected, and the registration period will begin soon. Yes, it's over a year away, but this early announcement will help ARDF enthusiasts from all over the world to make advance plans for this important event. The championships are open to anyone, at any ARDF skill level, from any country with an IARU Amateur Radio society. Mark your calendar now.

Support will be provided by the Cincinnati Orienteering Group (OCIN). To simplify logistics for all competitors, especially the anticipated visitors from Europe and Asia, group housing and local transportation will be available. OH-KY-IN has arranged for a block of double-occupancy rooms at Havighurst Hall, a co-ed dormitory at Miami University in Oxford, Ohio, close to five buffet dining halls on the campus.

Short-form daily schedule: Wednesday 7/30, arrivals and campus practice Thursday 7/31, 5K practice courses, optional field trips, opening ceremonies Friday 8/1, 2-meter event Saturday 8/2, 80-meter event, closing banquet Sunday 8/3, departures Additional information and updates are available at the 2003 USA ARDF Championships Web site.

Club Contact Directory

OTVARC Executive Board

President	Harold Landers	WAØBRU	waØbru@aol.com	503-646-1546
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Trustee	Alvin Carlson	KB7VHI	kb7vhi@arri.net	503-629-5728
Trustee	J.D. Fort	K7JDF	k7jdf@arri.net	503-259-0269
Trustee	Mel Sutton	KB7PVW	kb7pvw@arri.net	503-246-8879

Club Functions

ARRL Coordinator	Greg Milnes	W7OZ	w7oz@arri.net	503-648-6990
Badges and Jackets	Brendan Van Horn	KD7LAH	kd7lah@arri.net	503-533-5432
Club License Trustee	Hanford Van Ness	KE7BB	ke7bb@email.msn.com	503-246-7975
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	Linda Sutton	KC7YTD	kb7pvw@arri.net	503-246-8879
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	John Anderson	KA7BRZ	ka7brz@arri.net	503-452-2459
Trailer	Alvin Carlson	KB7VHI	kb7vhi@arri.net	503-629-5728
	Dee Lynch	K7JRB	dee7jrb@arri.net	541-745-1025
VE Coordinator	Carl Clawson	WS7L	ws7l@arri.net	503-629-5796

Interest Contacts

Project Night	Alan Chinnock	KB7POR	kb7por@aol.com	503-636-2237
QRP	Carl Blanchard	N7CVB	n7cvb@arri.net	503-620-2581
RFI & TVI	Dale Mosby	K7FW	dale@sequent.com	503-640-0217
Satellites	Everett Curry Jr.	W6ABM	w6abm@arri.net	503-681-2345
Tower Ordinances	Greg Milnes	W7OZ	w7oz@arri.net	503-648-6990
Travelers	Betty Mickley	N7REX	n7rex@teleport.com	503-642-1284
VHF/UHF	Arnold Jensen	W7DSA	n7yag@columbia-center.org	503-543-3713

Birthdays for September:

Please join in wishing these folks a "Happy Birthday" in September:

2: Annette KD7FLC; **5:** Bob KD7OHF; **14:** Neil WA6KLA;
15: Dale KA7TZU; **16:** Douglas K7DJH; **20:** Catherine N7GCL;
28: Greg KC7TDK; **29:** Darlyne KB7STY; Larry K7YBZ

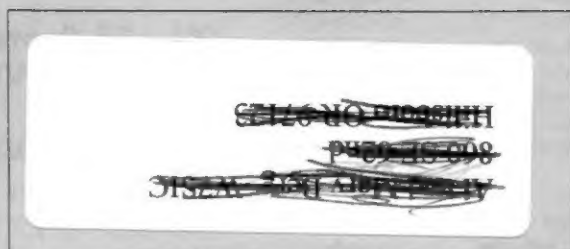
Did we miss you? Update your information with the Secretary.

Hamfests And Conventions

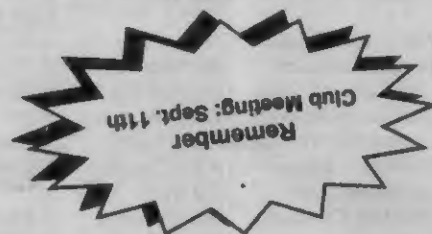
27 - 28 September 2002
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 See August Oscillator for
 Registration Information

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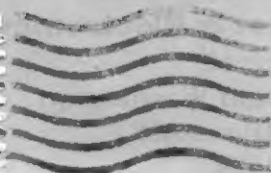
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Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective and established Amateur to become a proficient communicator in the Amateur Radio Service.

Our intent is to promote the advancement of Amateur Radio Service through these five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during community events & activities.
3. Emergency communications in emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with amateurs & other interested persons.

Special Service Club: OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits when you join or renew your membership in the ARRL through the club. Contact the treasurer at any regular meeting.

Newsletter: *The Oscillator* is the club newsletter. It is published monthly and mailed on the first of the month. Opinions, views, and recommendations of its contributors are not necessarily those of the club, its officers, advertisers or the editorial staff. Editor's E-mail: ecurry@onemain.com. The October 2002 OSCILLATOR deadline is Tuesday, September 24th.

Internet Home Page: WWW.OTVARC.ORG



Correspondence: All correspondence may be sent to **OTVARC, PO Box 5132, Aloha, OR 97006-0132.**

Meetings: We have two meetings per month. The General meeting is on the second Wednesday of each month at the Beaverton Elks Lodge. 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7 PM. If you would like to come early, you can get a nice meal from the Elks for less than \$7.00. The Board meeting is on the fourth Wednesday of each month at Fire Station 67, 13810 SW Farmington Rd., Beaverton, 7:00 pm. Club business is conducted at this meeting. All members are welcome to attend.

Membership: OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see the Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club treasurer for a prorated dues schedule.

How to join: Mail a Membership application and/or renewal form with your dues to the Club address.